

Use Attainability Analysis
for
WBID 1006 Tributary to Perche Creek

Submitted by
SES, Inc.

To
Missouri Department of Natural Resources
Water Protection Program

Date Received: September 10, 2007

Field Data Sheets for Recreation Use Stream Surveys
Data Sheet A - Water Body Identification
(For water body being surveyed)

Water Body Information

Water Body Name:	tributary to perche creek	WBID:	1006
8 digit HUC code:	10300102	County:	boone
Upstream Legal Description	47N13W5		
Downstream Legal Description	47N13W7		
Number of Sites Evaluated	3		
List all site numbers, listed upstream to downstream			
	1	2	3

Discharger Facility Information

Discharger Facility Name(s):	BCSD, springpark subd.
Discharger Permit Number(s):	MO 0100463

UAA Surveyor

Name of Surveyor:	Gilisa Gould	Telephone Number:	913-307-0046
Organization/Employer: SES, Inc.			
Position: Field Team Leader			

Signed: _____ Date: _____



Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
(must be completed for each site)

WBID 1006
 Site # 1

Date and Time: 1:45 PM 5.18.07

Current Weather Conditions clear

Weather Conditions for Past 10 days: partly cloudy

Drought Conditions? No

Site Location (e.g. road crossing) sabine road crossing

GPS Mark: 48

Upstream Photo 105 Downstream Photo 104

Uses Observed (Uses actually observed at time of survey) Circle

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	None of the Above	Other	

Surrounding Conditions

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	None of the Above	Other	

Indications of Human Use

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

WBID # 1006 **Site #** 1
Mark # 48 **Dissolved Oxygen (ppm)** 9.7
Upstream Views Physical Dimensions: Is there any water present at this view? yes

If so, is there an obvious current? no

Select one of the following channel features:

	% of Channel Feature				
Riffle					
Run					
Pool					

Downstream View's Physical Dimensions: Is there any water present at this view?

If so, is there an obvious current?

Substrate:

% Cobble	% Gravel	% Sand	% Silt
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% Mud/Clay	% Bedrock
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Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)

none

Water Characteristics

Odor	Sewage	Musky	Chemical	None	Other
Color	Clear	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	Foam	None	Other

Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)
(Median Depth Shown in Bold)

Site # 1

Mark # 48

1006_Tributary to Perchee creek_Boone

	Depth (m)
Transect 1	0.00
Substrate:	0.00
cobble	0.05
Water Clarity:	0.05
clear	0.00
Channel Feature:	0.00
rifle	0.00
Channel Width:	0.00
5.00	0.00
0.00	0.00
Transect 2	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
rifle	0.00
Channel Width:	0.00
5.00	0.00
0.00	0.00
Transect 3	0.00
Substrate:	0.05
cobble	0.05
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.00
rifle	0.00
Channel Width:	0.00
5.00	0.00
0.00	0.00
Transect 4	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.00
rifle	0.00
Channel Width:	0.00
5.00	0.00
0.00	0.00

	Depth (m)
Transect 5	0.00
Substrate:	0.05
cobble	0.00
Water Clarity:	0.05
clear	0.00
Channel Feature:	0.00
rifle	0.00
Channel Width:	0.00
5.00	0.00
0.00	0.00
Transect 6	0.00
Substrate:	0.05
cobble	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
rifle	0.00
Channel Width:	0.00
5.00	0.00
0.03	0.00
Transect 7	0.00
Substrate:	0.00
cobble	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
rifle	0.05
Channel Width:	0.05
5.00	0.05
0.05	0.00
Transect 8	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.00
rifle	0.05
Channel Width:	0.05
6.00	0.00
0.00	0.00

	Depth (m)
Transect 9	0.00
Substrate:	0.05
cobble	0.00
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.00
rifle	0.00
Channel Width:	0.00
6.00	0.05
0.00	0.00
Transect 10	0.00
Substrate:	0.00
cobble	0.05
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.00
rifle	0.05
Channel Width:	0.00
6.00	0.00
0.00	0.00
Transect 11	0.00
Substrate:	0.00
cobble	0.05
Water Clarity:	0.05
clear	0.00
Channel Feature:	0.05
rifle	0.05
Channel Width:	0.00
4.00	0.05
0.03	0.00

Site Median	Site Maximum
0.00	0.05

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
(must be completed for each site)

WBID 1006
 Site # 2

Date and Time: 3:45 PM 5.18.07

Current Weather Conditions clear

Weather Conditions for Past 10 days: cloudy

Drought Conditions? No

Site Location (e.g. road crossing) downstream of sabine road crossing; middle

GPS Mark: 49

Upstream Photo 107 Downstream Photo 106

Uses Observed (Uses actually observed at time of survey) Circle

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	None of the Above	Other	

Surrounding Conditions

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	None of the Above	Other	

Indications of Human Use

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

WBID # 1006 **Site #** 2
Mark # 49 **Dissolved Oxygen (ppm)** 10.5
Upstream Views Physical Dimensions: Is there any water present at this view? yes
 If so, is there an obvious current? no

Select one of the following channel features:

	% of Channel Feature				
Riffle					
Run					
Pool					

Downstream View's Physical Dimensions: Is there any water present at this view?

If so, is there an obvious current?

Substrate:

% Cobble	% Gravel	% Sand	% Silt
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% Mud/Clay	% Bedrock
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Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)

none

Water Characteristics

Odor	Sewage	Musky	Chemical	None	Other
Color	Clear	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	Foam	None	Other

Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)
(Median Depth Shown in Bold)

Site # 2

Mark # 49

1006_Tributary to Perchee creek_Boone

	Depth (m)
Transect 1	0.00
Substrate:	0.00
gravel	0.05
Water Clarity:	0.10
clear	0.15
Channel Feature:	0.10
riffle	0.05
Channel Width:	0.00
1.00	0.00
0.03	0.00
Transect 2	0.00
Substrate:	0.00
silt	0.10
Water Clarity:	0.10
none	0.10
Channel Feature:	0.20
pool	0.20
Channel Width:	0.20
3.00	0.20
0.10	0.10
Transect 3	0.00
Substrate:	0.05
gravel	0.20
Water Clarity:	0.25
none	0.30
Channel Feature:	0.40
pool	0.40
Channel Width:	0.40
5.00	0.40
0.30	0.30
Transect 4	0.00
Substrate:	0.05
gravel and silt	0.05
Water Clarity:	0.10
none	0.10
Channel Feature:	0.15
riffle	0.15
Channel Width:	0.10
4.00	0.10
0.10	0.10

	Depth (m)
Transect 5	0.05
Substrate:	0.10
silt	0.25
Water Clarity:	0.40
none	0.60
Channel Feature:	0.70
pool	0.90
Channel Width:	0.60
5.00	0.40
0.40	0.10
Transect 6	0.00
Substrate:	0.10
gravel	0.10
Water Clarity:	0.10
none	0.10
Channel Feature:	0.10
pool	0.10
Channel Width:	0.05
5.00	0.05
0.10	0.05
Transect 7	0.00
Substrate:	0.00
gravel	0.05
Water Clarity:	0.00
none	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
5.00	0.00
0.00	0.00
Transect 8	0.05
Substrate:	0.00
gravel	0.00
Water Clarity:	0.00
none	0.05
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.00
2.00	0.00
0.00	0.00

	Depth (m)
Transect 9	0.00
Substrate:	0.05
gravel	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
riffle	0.10
Channel Width:	0.10
3.00	0.10
0.05	0.10
Transect 10	0.05
Substrate:	0.10
silt	0.15
Water Clarity:	0.20
none	0.20
Channel Feature:	0.20
pool	0.20
Channel Width:	0.15
3.00	0.10
0.15	0.05
Transect 11	0.00
Substrate:	0.05
silt	0.05
Water Clarity:	0.00
none	0.00
Channel Feature:	0.00
pool	0.05
Channel Width:	0.10
5.00	0.10
0.05	0.05

Site Median	Site Maximum
0.08	0.90

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
(must be completed for each site)

WBID 1006
 Site # 3

Date and Time: 5.25.07 1:00 PM

Current Weather Conditions cloudy, with some rain

Weather Conditions for Past 10 days: rain

Drought Conditions? No

Site Location (e.g. road crossing) katy trail access

GPS Mark: 20

Upstream Photo 54 Downstream Photo 55

Uses Observed (Uses actually observed at time of survey) Circle

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	None of the Above	Other	

Surrounding Conditions

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	None of the Above	Other	

Indications of Human Use

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

Select one of the following channel features:

Riffle				
Run				
Pool				

If so, is there an obvious current?

% Cobble	% Gravel	% Sand	% Silt
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% Mud/Clay	% Bedrock
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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Odor	Sewage	Musky	Chemical	None	Other
Color	Clear	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	Foam	None	Other

not base flow, flooded

Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)
(Median Depth Shown in Bold)

Site # 3

Mark # 20

not base flow

1006_Tributary to Perchee creek_Boone

	Depth (m)
Transect 1	0.10
Substrate:	0.15
clay	0.15
Water Clarity:	0.15
some	0.25
Channel Feature:	0.25
pool	0.25
Channel Width:	0.20
3 yards	0.20
0.18	0.10
Transect 2	0.05
Substrate:	0.10
clay	0.10
Water Clarity:	0.05
clear	0.10
Channel Feature:	0.10
pool	0.05
Channel Width:	0.05
2 yards	0.10
0.08	0.05
Transect 3	0.05
Substrate:	0.10
silty clay	0.10
Water Clarity:	0.10
clear	0.15
Channel Feature:	0.20
pool	0.20
Channel Width:	0.15
6 yards	0.15
0.13	0.10
Transect 4	0.50
Substrate:	0.50
silty clay	0.10
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.05
pool	0.05
Channel Width:	0.05
2 yards	0.50
0.10	0.00

	Depth (m)
Transect 5	0.05
Substrate:	0.05
silty clay	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.00
pool	0.00
Channel Width:	0.00
5 yards	0.00
0.03	0.00
Transect 6	0.00
Substrate:	0.00
silty clay	0.05
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
pool	0.00
Channel Width:	0.00
4 yards	0.00
0.00	0.00
Transect 7	0.00
Substrate:	0.00
silty clay	0.00
Water Clarity:	0.05
clear	0.00
Channel Feature:	0.00
pool	0.00
Channel Width:	0.00
4 yards	0.00
0.00	0.00
Transect 8	0.00
Substrate:	0.10
silty clay	0.10
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.10
pool	0.05
Channel Width:	0.05
5 yards	0.05
0.05	0.05

	Depth (m)
Transect 9	0.10
Substrate:	0.15
silty clay	0.15
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.20
pool	0.20
Channel Width:	0.20
5 yards	0.20
0.15	0.10
Transect 10	0.50
Substrate:	0.10
silty clay	0.10
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.05
pool	0.00
Channel Width:	0.00
4 yards	0.00
0.08	0.00
Transect 11	0.05
Substrate:	0.10
silty clay	0.10
Water Clarity:	0.10
clear	0.05
Channel Feature:	0.00
pool	0.00
Channel Width:	0.00
4 yards	0.00
0.03	0.00

Site Median	Site Maximum
0.05	0.50

WBID# 1006



Site# 1 Photo ID# 105, Upstream



Site# 1 Photo ID# 104, Downstream



Site# 2 Photo ID# 107, Upstream



Site# 2 Photo ID# 106, Downstream

WBID# 1006



Site# 3 Photo ID# 54, Upstream



Site# 3 Photo ID# 55, Downstream